

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A An injection molding comprising polyacetal, the molding having a minimum wall thickness and a maximum wall thickness, the difference between the minimum and maximum wall thicknesses being at least about 3 mm, the molding further comprising a ~~with wall thickness differences and with microcellular structure, the microcellular structure comprising cells formed by the spontaneous escape of gas due to a reduction in temperature and/or pressure below the temperature and/or pressure critical point of a supercritical fluid dissolved in a polymer melt from which the molding is formed, wherein at least 70% of the cells are spherical, the cells comprising a diameter from 5 to 50 μm , wherein~~ the mechanical properties and/or chemicals chemical resistance of the molding is/are better than that/those of a corresponding solid moldings and wherein the microcellular structure has cells with a size in the range from 1 to 100 μm molding, the density of the molding is 10% to 25% less than the density of a corresponding solid molding and the molding has a screw-insertion torque of at least 2.5 NM.

2. (Canceled)

3. (Currently Amended) The injection molding as claimed in claim 1, wherein the a molding composition used to produce the molding comprises at least 40% by weight of polyacetals polyacetal.

4. (Currently Amended) The injection molding as claimed in claim 1, wherein the density of the molding is in the range from 1.0 to 1.6 g/cm³.

5. (Canceled)

6. (Currently Amended) The injection molding as claimed in claim 1, which has an overtorque of at least 7.8 Nm.

7. (Canceled)

8. (Currently Amended) The injection molding as claimed in claim 1, which has no stress cracks within 10 minutes after 5 minutes of immersion into 50% strength sulfuric acid.

9. (Currently Amended) The injection molding as claimed in claim 1, wherein the polyacetal is a copolymer.

10. (Currently Amended) The injection molding as claimed in claim 1, wherein the molding encompasses metal.

11. (Currently Amended) The injection molding as claimed in claim 1, which has sharp corners, edges, ribs, fillets, screw domes, snap-action hooks, and/or film hinges.

12. (Currently Amended) The injection molding as claimed in claim 1, which has at least one perforation.

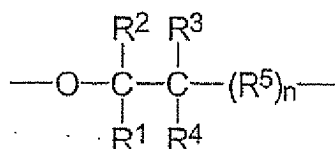
13. (Currently Amended) The injection molding as claimed in claim 12, wherein the area of the perforations, based on the total of the area of all of the perforations, is at least 1 mm².

14. (Currently Amended) The injection molding as claimed in claim 1, which has an average wall thickness in the range from 0.1 to 100 mm.

15-20. (Canceled)

21. (New) The molding as claimed in claim 1, wherein the molding comprises a flow path length, the ratio of the flow path length to the wall thickness difference being from 1:1 to 500:1.

22. (New) The molding as claimed in claim 1, wherein the polyacetal comprises from 0.1 to 20 mol% of repeat units of the general formula



wherein R¹ to R⁴ are independently selected from the group consisting of hydrogen, alkyl group, and halogen-substituted alkyl groups containing from 1 to 4 carbon atoms; R⁵ is selected from the group consisting of -CH₂-, -CH₂O-, alkyl group containing from 1 to 4 carbon atoms, and haloalkyl-substituted methylene groups containing from 1 to 4 carbon atoms; and n is a whole number from 0 to 3.

23. (New) The molding as claimed in claim 1, wherein the polyacetal comprises a number-average molecular weight of from 10,000 to 100,000 and a volume flow index from 1 to 70 cm³/10 min.

24. (New) The molding as claimed in claim 1, wherein a molding composition used to produce the molding comprises at least 95% by weight of polyacetal.

25. (New) The molding as claimed in claim 1, wherein the supercritical fluid is present in the polymer melt from 10⁻⁸ to 5% by weight.

26. (New) The molding as claimed in claim 1, wherein the supercritical fluid is selected from the group consisting of carbon dioxide, nitrogen, dinitrogen monoxide, ethylene, propane, ammonia, and combinations thereof.

27. (New) The molding as claimed in claim 1, wherein the supercritical fluid reduces the polymer melt viscosity up to 60% below the viscosity of the pure polymer melt.

28. (New) The molding as claimed in claim 1, wherein the cells are generally uniformly distributed within the molding.